



# USER MANUAL

## RHC10 and RHC15

### REAC HAND CONTROL





## About REAC

REAC is passionate about helping people in their daily lives, and by providing a wide range of advanced power solutions suitable for many different applications, we hope to make people's lives a little bit easier. Our aim is to offer our clients an excellent service, backed up by experience and know-how in the application of advanced motion systems.

REAC's power solutions contain compact and strong electrical actuators, lift and tilt systems, control units and hand controls. We know that our customers have different needs and therefore our products are designed to be customized according to their application's specific requirements.

We are confident to say that we can solve a wide range of motion problems, so please challenge us!

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# Table of Content

<b>1</b>	<b>INTRODUCTION .....</b>	<b>1</b>
1.1	DOCUMENTATION.....	1
1.2	SYMBOLS .....	1
<b>2</b>	<b>OPERATING INSTRUCTIONS .....</b>	<b>2</b>
2.1	BUTTON FUNCTIONS.....	2
2.2	KEY LOCK FUNCTION .....	2
<b>3</b>	<b>MAINTENANCE .....</b>	<b>3</b>
3.1	SERVICE INTERVALS.....	3
3.2	CLEANING AND DISINFECTION .....	3
3.3	WASTE DISPOSAL.....	4
3.4	WARRANTY.....	4
3.5	REPAIRS.....	4
<b>4</b>	<b>TROUBLE SHOOTING .....</b>	<b>5</b>
<b>5</b>	<b>TECHNICAL DATA.....</b>	<b>6</b>
5.1	SYSTEM AND COMPATIBILITY.....	6
5.2	BASIC CHARACTERISTICS.....	6
5.3	ENVIRONMENTAL CONDITIONS.....	7
5.4	FUNCTIONAL FEATURES.....	7
<b>6</b>	<b>LABELING .....</b>	<b>8</b>

# 1 Introduction

## 1.1 Documentation

This manual describes controls RHC10 and RCH15

Next to this manual the following documentation is available:

- RHC10 data sheet
- RHC15 data sheet

## 1.2 Symbols

The following symbols will be used in this document:



Failure to comply with these instructions may result in accidents involving personal injury.



Failing to follow these instructions can result in the product being damaged or destroyed.



Useful tips, recommendations and information for efficient, trouble-free use.

## 2 Operating instructions

### 2.1 Button functions

- RHC10, general purpose hand control.
- RHC15, intended for patient lift systems.

RHC10 and RCB15 standard features and design. RCH10 is available in 1-4 channel version

They can be customized to fit unique needs.

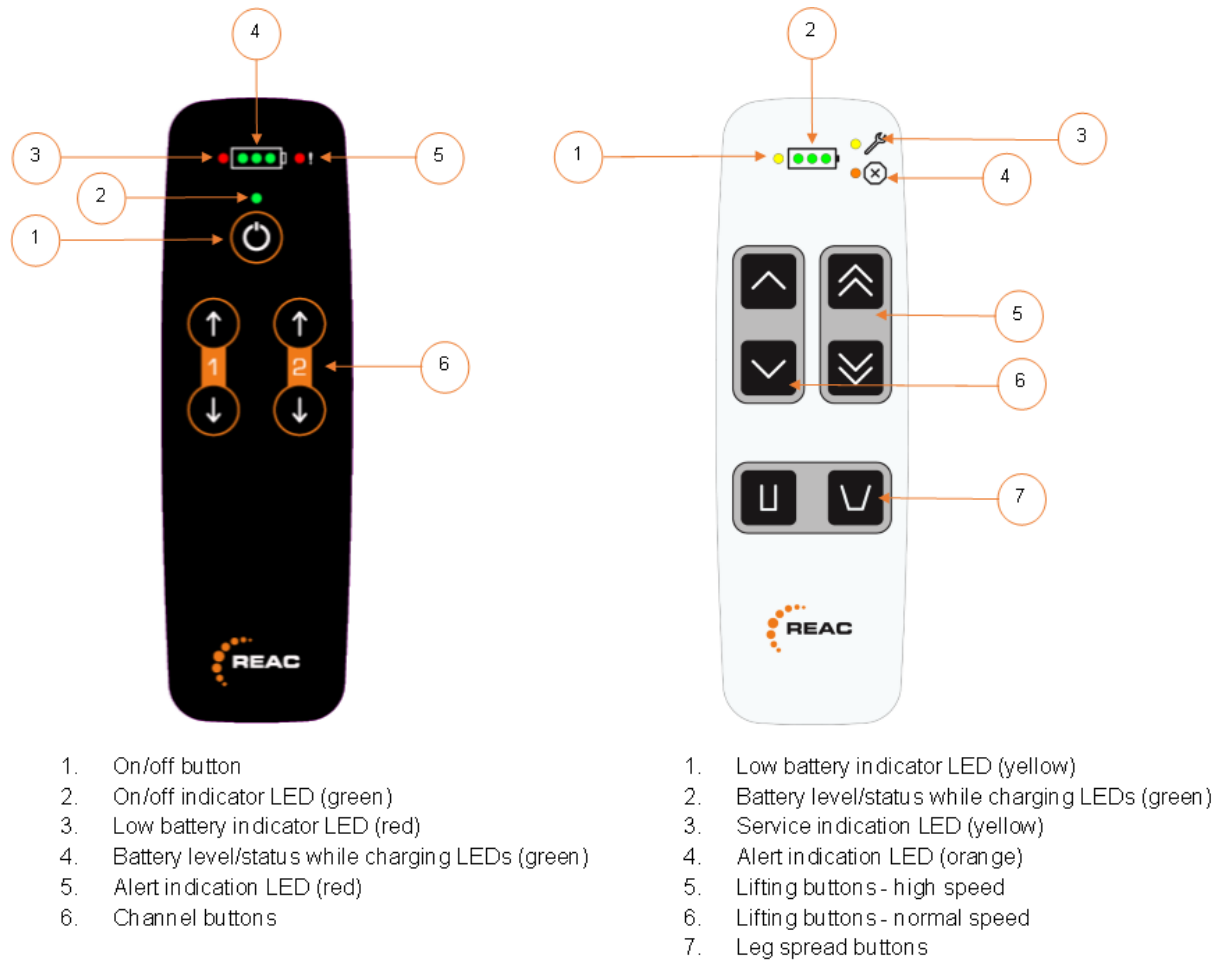


Figure 1. RHC10 2-channel version and RHC15 - control description

### 2.2 Key lock function

RHC10 has a Key lock function. To lock a channel press both buttons for that channel at the same time for 3 seconds until the alert indicator LED is lit. Channel is locked. To unlock, do the same procedur. LED is switched off.

Turning off the system with the on/off button and then start again, the red LED will light for a short while to indicate key lock is active.

## 3 Maintenance

### 3.1 Service intervals

To ensure safe and proper operation, regular service is required. The service interval is dependent of the needs of the final application in which the hand control is used.

Between these service points regular maintenance and minor inspection must also be performed. Below follows a suggested maintenance schedule:

	Initially	Before each use	Regularly	At planned service
<b>Cables</b> Make sure cable is connected to hand control and control unit is firmly affixed	✓		✓	✓
<b>Cables</b> The cable must be checked for mechanical damage.	✓			✓
<b>Cover</b> The plastic housing must be checked for mechanical damage (cracks).	✓			✓
<b>Overlay</b> The overlays must be checked for mechanical damage and firmly affixed	✓			✓

### 3.2 Cleaning and disinfection

Product	Cleaning instructions
RHC10	Clean with a damp cloth or with a brush and water.
RHC15	Clean with a damp cloth or with a brush and water.



Do not wash directly with a high-pressure cleaner.  
Do not use a steam cleaner.



For disinfection, it is recommended to use soap or equal and clean with a damp cloth.

Cleaners and disinfectants must not:

- be highly alkaline or acidic
- contain caustic agents
- change the structure of the surface of the plastic or the adhesives

### 3.3 Waste disposal



All REAC products are marked with this symbol, which according to *Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/CE* means that products marked with this sign must be taken to a proper disposal site and cannot be disposed in in normal household waste.

RHC10 and RHC15 consist of several parts with different material, which means that they cannot be disposed as one single item. It is recommended (at disposal) to disassemble and divide the product as much as possible in to feasible waste groups to be able to recycle the product in the most environmental friendly way.

The following waste groups have been identified for the hand controls:

	Cables	Electronics	Metal	Plastic
<b>RHC10</b>	• Connection cable	• PCBA	• N/A	• Cover
<b>RHC15</b>	• Connection cable	• PCBA	• N/A	• Cover

Some of these main groups can be divided into sub-groups, for example metal can be divided into iron, stainless steel and aluminum and alloy steel. Plastic can e.g. be divided into ABS, PA, PE and PP. All our plastic units are provided with an interior code for plastic types and fibre contents.

### 3.4 Warranty

There is a warranty on REAC products against manufacturing faults. The warranty period begins on the purchasing date of the product and applies for 12 months. Warranty exclusions: REAC is entitled to deny any warranty if:

- The product has not been correctly used or the product usage specifications (load, environment, temperature, duty cycle, voltage, current, etc) have not been respected.
- The product has not been correctly maintained.
- The product has been tampered with.
- The product has been exposed to violent or abrasive treatment.

Nonconformities due to age of the product (for example, discolouring of painting) are excluded from warranty. In case of doubt regarding the existence of a defect or if an inspection is required, REAC reserves the right to request the return of the product.

Any additional warranty obligations for parts replaced free of charge or for any service provided without charge under this warranty shall be excluded.

Warranty of the replaced parts under warranty period will end on the date of expiry of the warranty period of the product concerned.

### 3.5 Repairs

To avoid the risk of malfunction, all repairs must only be carried out by authorized REAC workshops or by a REAC appointed representative. Products under warranty must also be returned to an authorized REAC workshop.

## 4 Trouble shooting

Problem	Probable cause	Description	Solution
Hand control appears "dead"	Poor contact with control unit	Nothing happens when pressing a button, no LEDs are lit.	Make sure hand control is properly plugged in to control unit.
	Low battery level <i>(in control system)</i>	Nothing happens when pressing a button, no LEDs are lit.	Charge batteries <i>(in control system)</i>
	Hand control broken		Service needed



## 5 Technical data

### 5.1 System and compatibility

RHC10 and RHC15 are two variants of hand controls, to be used with the following REAC control units:

- RCB10
- RCB11
- RCB12
- RCB15
- RCB20
- RCB25

### 5.2 Basic characteristics

	RHC10	RHC15
No of actuator channels	Up to 4	Up to 3
IP-class	IPX4	IPX4
Weight	0.2 kg	0.2 kg
Color	Black (RAL9005) White (RAL9016)	Black (RAL9005) White (RAL9016)
Expected service life	8 years <sup>1</sup>	8 years <sup>1</sup>

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<sup>1</sup> Provided that service schedule described in the user manuals are followed

### 5.3 Environmental conditions

	RHC10	RHC15
<b>Operating</b>		
Ambient temperature	-25 °C to +50 °C	-25 °C to +50 °C
Relative humidity	15% to 90%	15% to 90%
Atmospheric pressure	700 to 1060 hPa	700 to 1060 hPa
<b>Storage</b>		
Ambient temperature	-40 °C to +70 °C	-40 °C to +70 °C
Relative humidity	15% to 90%	15% to 90%
Atmospheric pressure	700 to 1060 hPa	700 to 1060 hPa



Using the the products outside their specified limits may lead to subsequent malfunction or personal injury




### 5.4 Functional features

	RHC10	RHC15
Battery level indicator LEDs	✓	✓
Low battery level warning LED	✓	✓
Battery charging indicator	✓	✓
Service indication LED		✓
Alert LED	✓	✓
Two speed operation		✓
Key lock	✓	

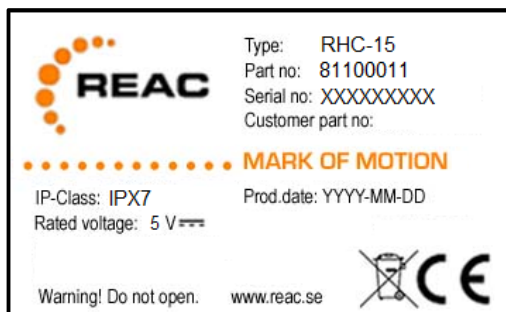


## 6 Labeling





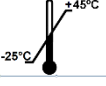



The following symbols are used on the label of REAC Control System products.

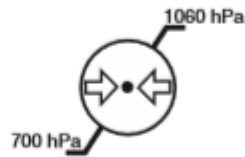
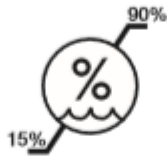
<b>IPXX</b>	Ingress of particles (first character) and water (second character) as per EN60529.
	DC Voltage
	WEEE compliant
	CE-label attached based on Low Voltage Directive and EMC Directive.

### Label example:



The following symbols are used on the packaging of REAC Control System products.

	<p>Manufacturer/manufacturing date.</p>
	<p>Do not use if package is damaged.</p>
	<p>Fragile, handle with care</p>
	<p>Keep dry</p>
	<p>Temperature limits</p>
	<p>Relative humidity limits</p>
	<p>Atmospheric pressure limits</p>
	<p>Consult instructions for use (Can be ordered via REAC homepage)</p>



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